

INTERNATIONAL SEARCH REPORT

PCT/IB2004/052051

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H05K1/18 H05K3/28 H01L33/00 H01L31/0203

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H05K H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 677 568 A (KODAI SYOJIRO ET AL) 14 October 1997 (1997-10-14) column 3, line 42 - column 4, line 56; figures 1-3,4a column 4, line 66 - column 5, line 5 -----	1,2,5,8, 9
A	WO 03/032241 A (DROZ FRANCOIS ; NAGRAID SA (CH)) 17 April 2003 (2003-04-17) page 1, paragraph 3; figure 2 page 6, line 18 - page 7, line 7 -----	1-11
A	DE 197 08 615 C (SIEMENS AG) 23 July 1998 (1998-07-23) sentence 6 - sentence 22; figure 1 -----	1-11
A	FR 2 833 801 A (OBERTHUR CARD SYST SA) 20 June 2003 (2003-06-20) page 5, line 7 - page 6, line 6; figure 4 -----	1-11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *P* document published prior to the International filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

3 December 2004

13/12/2004

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